

Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Keokuk County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8B: Judson-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
8C: Judson-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
13B: Olmitz-----	30	Very limited Low strength Frost action Shrink-swell	1.00 0.50 0.01	Somewhat limited Depth to saturated zone	0.16	Not limited	
Vesser-----	28	Very limited Frost action Low strength Flooding Depth to saturated zone	1.00 1.00 0.40 0.03	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.03
Zook-----	27	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.60 0.01	Very limited Depth to saturated zone Flooding	1.00 0.60
24D2: Shelby-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24E2: Shelby-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Shrink-swell	0.50				
		Frost action	0.50				
51: Vesser-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
51B: Vesser-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.03
		Low strength	1.00				
		Flooding	0.40				
		Depth to saturated zone	0.03				
54: Zook-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00	Too clayey	0.01		
		Low strength	1.00				
		Shrink-swell	1.00				
54+: Zook-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00	Too clayey	0.01		
		Low strength	1.00				
		Shrink-swell	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
56B: Cantril-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00				
		Depth to saturated zone	0.75				
		Shrink-swell	0.50				
56C: Cantril-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00				
		Depth to saturated zone	0.75				
		Shrink-swell	0.50				
65D2: Lindley-----	95	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63				
		Frost action	0.50				
		Shrink-swell	0.32				
65E: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Frost action	0.50				
		Shrink-swell	0.32				
65E2: Lindley-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Frost action	0.50				
		Shrink-swell	0.32				
65F: Lindley-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Frost action	0.50				
		Shrink-swell	0.32				

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Keokuk County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65F2: Lindley-----	90	Very limited Slope Low strength Frost action Shrink-swell	1.00 1.00 0.50 0.32	Very limited Slope	1.00	Very limited Slope	1.00
65G: Lindley-----	95	Very limited Slope Low strength Frost action Shrink-swell	1.00 1.00 0.50 0.32	Very limited Slope	1.00	Very limited Slope	1.00
74: Rubio-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
75: Givin-----	95	Very limited Shrink-swell Frost action Low strength Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
75B: Givin-----	95	Very limited Shrink-swell Frost action Low strength Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
76B: Ladoga-----	95	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
76B2: Ladoga-----	90	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Frost action	1.00 0.50				
76C: Ladoga-----	95	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Frost action	1.00 0.50				
76C2: Ladoga-----	90	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Frost action	1.00 0.50				
76D2: Ladoga-----	90	Very limited Shrink-swell	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Low strength Slope Frost action	1.00 0.63 0.50	Depth to saturated zone	0.16		
80B: Clinton-----	95	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Frost action	1.00 0.50				
80C: Clinton-----	95	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Frost action	1.00 0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80C2: Clinton-----	90	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	1.00				
		Frost action	0.50				
80D: Clinton-----	90	Very limited Shrink-swell	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Low strength	1.00	Depth to saturated zone	0.16		
		Slope	0.63				
		Frost action	0.50				
80D2: Clinton-----	90	Very limited Shrink-swell	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Low strength	1.00	Depth to saturated zone	0.16		
		Slope	0.63				
		Frost action	0.50				
87B: Colo-----	68	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
Zook-----	32	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00	Too clayey	0.01		
		Low strength	1.00				
		Shrink-swell	1.00				
93D2: Shelby-----	60	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Adair-----	40	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Frost action	1.00	Slope	0.63	Slope	0.63
		Low strength	1.00	Too clayey	0.41		
		Depth to saturated zone	0.75				
		Slope	0.63				
122: Sperry-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Too clayey	0.01		
		Shrink-swell	1.00				
		Ponding	1.00				
133: Colo-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
133+: Colo-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
133B: Colo-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
		Flooding	0.40				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163E: Fayette-----	90	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 1.00 0.32	Very limited Slope	 1.00	Very limited Slope	 1.00
163E2: Fayette-----	90	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 1.00 0.32	Very limited Slope	 1.00	Very limited Slope	 1.00
163F: Fayette-----	90	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.32	Very limited Slope	 1.00	Very limited Slope	 1.00
179D2: Gara-----	90	Very limited Low strength Slope Shrink-swell Frost action	 1.00 0.63 0.50 0.50	Somewhat limited Slope	 0.63	Somewhat limited Slope	 0.63
179E: Gara-----	95	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
179E2: Gara-----	90	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179F2: Gara-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
180: Keomah-----	95	Very limited Frost action Low strength Depth to saturated zone Shrink-swell	1.00 1.00 0.75 0.50	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
220: Nodaway-----	90	Very limited Frost action Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.60 0.16	Somewhat limited Flooding	0.60
Other-----	5	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Flooding	1.00 1.00 1.00 0.50 0.40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
222C: Clarinda-----	90	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00
222C2: Clarinda-----	90	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
223C2: Rinda-----	90	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Depth to saturated zone	1.00
273C: Olmitz-----	95	Very limited Low strength Frost action Shrink-swell	1.00 0.50 0.01	Somewhat limited Depth to saturated zone	0.16	Not limited	
279: Taintor-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
280: Mahaska-----	95	Very limited Shrink-swell Frost action Low strength Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
280B: Mahaska-----	90	Very limited Shrink-swell Frost action Low strength Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
281B: Otley-----	90	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
281B2: Otley-----	90	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Frost action	0.50				
281C: Otley-----	95	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Frost action	0.50				
281C2: Otley-----	90	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Frost action	0.50				
281D2: Otley-----	90	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	0.95	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63		
		Slope	0.63				
		Frost action	0.50				
293C: Chelsea-----	57	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.37
Fayette-----	38	Very limited Frost action	1.00	Not limited		Not limited	
		Low strength	1.00				
		Shrink-swell	0.32				
293D: Chelsea-----	57	Somewhat limited Slope	0.63	Very limited cutbanks cave	0.90	Somewhat limited Slope	0.63
				Slope	0.63	Droughty	0.37

FIELD OFFICE TECHNICAL GUIDE Sec. II
NONAGRICULTURAL INTERPRETATIONS

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Fayette-----	38	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.32	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
293E: Chelsea-----	57	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.37
Fayette-----	38	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.32	Very limited Slope	1.00	Very limited Slope	1.00
293F: Chelsea-----	57	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.37
Fayette-----	38	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.32	Very limited Slope	1.00	Very limited Slope	1.00
294C: Billett-----	65	Somewhat limited Frost action	0.50	Not limited		Not limited	
Ladoga-----	35	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited cutbanks cave Depth to saturated zone	0.90 0.16	Not limited	
294D: Billett-----	65	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ladoga-----	35	Very limited Shrink-swell Low strength Slope Frost action	1.00 1.00 0.63 0.50	Very limited cutbanks cave Slope Depth to saturated zone	0.90 0.63 0.16	Somewhat limited Slope	0.63
313F2: Gosport-----	95	Very limited Shrink-swell Slope Low strength Frost action	1.00 1.00 1.00 0.50	Very limited Slope Depth to saturated zone Depth to soft bedrock Too clayey	1.00 0.95 0.42 0.32	Very limited Slope Droughty Depth to bedrock	1.00 0.49 0.42
319E: Dunbarton-----	95	Very limited Depth to hard bedrock Low strength Shrink-swell Slope Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to hard bedrock Slope Too clayey	1.00 1.00 1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.78
422: Amana-----	90	Very limited Frost action Flooding Low strength Depth to saturated zone	1.00 1.00 1.00 0.03	Very limited Depth to saturated zone Flooding	1.00 0.60	Somewhat limited Flooding Depth to saturated zone	0.60 0.03
423D2: Bucknell-----	90	Very limited Shrink-swell Frost action Low strength Depth to saturated zone Slope	1.00 1.00 1.00 0.75 0.63	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.08	Somewhat limited Depth to saturated zone Slope	0.75 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
424D: Lindley-----	52	Very limited Low strength Slope Frost action Shrink-swell	 1.00 0.63 0.50 0.32	Somewhat limited Slope	 0.63	Somewhat limited Slope	 0.63
Keswick-----	43	Very limited Frost action Low strength Shrink-swell Depth to saturated zone Slope	 1.00 1.00 1.00 0.75 0.63	Very limited Depth to saturated zone Slope Too clayey	 1.00 0.63 0.28	Somewhat limited Depth to saturated zone Slope	 0.75 0.63
424D2: Lindley-----	52	Very limited Low strength Slope Frost action Shrink-swell	 1.00 0.63 0.50 0.32	Somewhat limited Slope	 0.63	Somewhat limited Slope	 0.63
Keswick-----	43	Very limited Frost action Low strength Shrink-swell Depth to saturated zone Slope	 1.00 1.00 1.00 0.75 0.63	Very limited Depth to saturated zone Slope Too clayey	 1.00 0.63 0.28	Somewhat limited Depth to saturated zone Slope	 0.75 0.63
424E2: Lindley-----	48	Very limited Slope Low strength Frost action Shrink-swell	 1.00 1.00 0.50 0.32	Very limited Slope	 1.00	Very limited Slope	 1.00
Keswick-----	42	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	 1.00 1.00 1.00 1.00 0.75	Very limited Slope Depth to saturated zone Too clayey	 1.00 1.00 0.28	Very limited Slope Depth to saturated zone	 1.00 0.75

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
425D: Keswick-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00	Slope	0.63	Slope	0.63
		Shrink-swell	1.00	Too clayey	0.28		
		Depth to saturated zone	0.75				
		Slope	0.63				
425D2: Keswick-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00	Slope	0.63	Slope	0.63
		Shrink-swell	1.00	Too clayey	0.28		
		Depth to saturated zone	0.75				
		Slope	0.63				
428B: Ely-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00				
		Depth to saturated zone	0.75				
		Shrink-swell	0.50				
430: Ackmore-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.03
		Low strength	1.00				
		Shrink-swell	0.68				
		Depth to saturated zone	0.03				

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Keokuk County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453: Tuskeego-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
520: Coppock-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
520B: Coppock-----	95	Very limited Frost action Low strength Depth to saturated zone Shrink-swell Flooding	1.00 1.00 0.75 0.50 0.40	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
570C: Nira-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.92	Very limited Depth to saturated zone	0.95	Not limited	
570C2: Nira-----	95	Very limited Low strength Shrink-swell	1.00 0.92	Very limited Depth to saturated zone	0.95	Not limited	
571C2: Hedrick-----	89	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.68	Very limited Depth to saturated zone	0.95	Not limited	

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Keokuk County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
571D2: Hedrick-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63		
		Shrink-swell	0.68				
		Slope	0.63				
572C2: Inton-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Shrink-swell	0.68				
572D2: Inton-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63		
		Shrink-swell	0.68				
		Slope	0.63				
587: Chequest-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	1.00				
587+: Chequest-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	1.00				
687B: Watkins-----	90	Very limited Frost action	1.00	Not limited		Not limited	
		Low strength	1.00				
		Shrink-swell	0.32				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
688: Koszta-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00				
		Depth to saturated zone	0.75				
		Shrink-swell	0.50				
722: Nodaway-----	36	Very limited Frost action	1.00	Somewhat limited Flooding	0.60	Somewhat limited Flooding	0.60
		Flooding	1.00	Depth to saturated zone	0.16		
		Low strength	1.00				
Ackmore-----	32	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.03
		Low strength	1.00				
		Shrink-swell	0.68				
		Depth to saturated zone	0.03				
Vesser-----	22	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
730B: Nodaway-----	46	Very limited Frost action	1.00	Somewhat limited Flooding	0.60	Somewhat limited Flooding	0.60
		Flooding	1.00	Depth to saturated zone	0.16		
		Low strength	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Coppock-----	27	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.03
		Low strength	1.00				
		Shrink-swell	0.50				
		Flooding	0.40				
		Depth to saturated zone	0.03				
Cantril-----	17	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.03
		Low strength	1.00				
		Shrink-swell	0.50				
		Flooding	0.40				
		Depth to saturated zone	0.03				
779: Kalona-----	95	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00				
		Frost action	1.00				
		Low strength	1.00				
792C2: Armstrong-----	90	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Frost action	1.00	Too clayey	0.32		
		Low strength	1.00				
		Depth to saturated zone	0.75				
792D2: Armstrong-----	95	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Frost action	1.00	Slope	0.63	Slope	0.63
		Low strength	1.00	Too clayey	0.32		
		Depth to saturated zone	0.75				
		Slope	0.63				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
795C2: Ashgrove-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Depth to saturated zone	1.00
795D2: Ashgrove-----	82	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Slope	1.00 1.00 1.00 1.00 1.00 0.63	Very limited Depth to saturated zone Slope Too clayey	1.00 1.00 0.63 0.50	Very limited Depth to saturated zone Slope	1.00 1.00 0.63
822D2: Lamoni-----	90	Very limited Shrink-swell Frost action Low strength Depth to saturated zone Slope	1.00 1.00 1.00 1.00 0.75 0.63	Very limited Depth to saturated zone Slope Too clayey	1.00 1.00 0.63 0.08	Somewhat limited Depth to saturated zone Slope	0.75 0.63
876B: Ladoga-----	90	Very limited Shrink-swell Low strength Frost action	1.00 1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
876C2: Ladoga-----	90	Very limited Shrink-swell Low strength Frost action	1.00 1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
876D2: Ladoga-----	90	Very limited Shrink-swell Low strength Slope Frost action	 1.00 1.00 0.63 0.50	Somewhat limited Slope Depth to saturated zone	 0.63 0.16	Somewhat limited Slope	 0.63
880B: Clinton-----	95	Very limited Shrink-swell Low strength Frost action	 1.00 1.00 0.50	Somewhat limited Depth to saturated zone	 0.16	Not limited	
880C2: Clinton-----	95	Very limited Shrink-swell Low strength Frost action	 1.00 1.00 0.50	Somewhat limited Depth to saturated zone	 0.16	Not limited	
880D2: Clinton-----	95	Very limited Shrink-swell Low strength Slope Frost action	 1.00 1.00 0.63 0.50	Somewhat limited Slope Depth to saturated zone	 0.63 0.16	Somewhat limited Slope	 0.63
881B: Otley-----	95	Very limited Shrink-swell Low strength Frost action	 1.00 1.00 0.50	Very limited Depth to saturated zone	 0.95	Not limited	
911B: Colo-----	57	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	 1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	 1.00 0.60	Very limited Depth to saturated zone Flooding	 1.00 0.60

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ely-----	38	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.03
		Low strength	1.00				
		Shrink-swell	0.50				
		Depth to saturated zone	0.03				
993D2: Gara-----	48	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				
Armstrong-----	42	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Frost action	1.00	Slope	0.63	Slope	0.63
		Low strength	1.00	Too clayey	0.32		
		Depth to saturated zone	0.75				
		Slope	0.63				
993E2: Gara-----	48	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Shrink-swell	0.50				
		Frost action	0.50				
Armstrong-----	42	Very limited Shrink-swell	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Low strength	1.00	Too clayey	0.32		
		Slope	1.00				
		Depth to saturated zone	0.75				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
994D2: Galland-----	65	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Low strength	1.00	Slope	0.63	Slope	0.63
		Shrink-swell	1.00	Too clayey	0.01		
		Depth to saturated zone	0.75				
		Slope	0.63				
Douds-----	25	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Shrink-swell	0.50	Depth to saturated zone	0.16		
		Frost action	0.50				
994E2: Galland-----	55	Very limited Frost action	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Shrink-swell	1.00	Too clayey	0.01		
		Slope	1.00				
		Depth to saturated zone	0.75				
Douds-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Shrink-swell	0.50	Depth to saturated zone	0.16		
		Frost action	0.50				
999F: Nordness-----	62	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
						Droughty	1.00
Eleva-----	23	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
				cutbanks cave	0.90	Droughty	0.60
				Depth to soft bedrock	0.42	Depth to bedrock	0.42

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
999G: Nordness-----	62	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Eleva-----	23	Very limited Slope	1.00	Very limited Slope cutbanks cave Depth to soft bedrock	1.00 0.90 0.42	Very limited Slope Droughty Depth to bedrock	1.00 0.60 0.42
1075: Givin-----	90	Very limited Shrink-swell Frost action Low strength Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
1220: Nodaway-----	90	Very limited Frost action Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.16	Very limited Flooding	1.00
1279: Taintor-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
1280: Mahaska-----	95	Very limited Shrink-swell Frost action Low strength Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1315: Nodaway-----	57	Very limited Frost action Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.16	Very limited Flooding	1.00
Klum-----	38	Very limited Flooding Frost action	1.00 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.16	Very limited Flooding	1.00
5010: Pits, Sand And Gravel-----	100	Not rated		Not rated		Not rated	
5020: Pits And Dumps-----	100	Not rated		Not rated		Not rated	
5030: Pits, Limestone Quarries-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
5048: Aquents, Ponded, Frequently Flooded-	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5060: Pits, Clay-----	100	Not rated		Not rated		Not rated	
5080: Orthents, Sanitary Landfill-----	100	Not rated		Not rated		Not rated	
6051: Vesser-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
6054: Zook-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.80 0.01	Very limited Flooding Depth to saturated zone	1.00 1.00
6133: Colo-----	90	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6133+: Colo-----	90	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
6220: Nodaway-----	90	Very limited Frost action Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.16	Very limited Flooding	1.00
6315: Nodaway-----	57	Very limited Frost action Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.16	Very limited Flooding	1.00
Klum-----	38	Very limited Flooding Frost action	1.00 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.16	Very limited Flooding	1.00
6422: Amana-----	89	Very limited Frost action Flooding Low strength Depth to saturated zone	1.00 1.00 1.00 0.03	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 0.03

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6587: Chequest-----	90	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
AW: Animal Waste-----		Not rated		Not rated		Not rated	
SL: Sewage Lagoon-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	